



#91321512
PATENT

S/N 09/434,654

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Kevin J. Ryan

Examiner: James Peikari

Serial No.: 09/434,654

Group Art Unit: 2186

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Title: PIPELINED PACKET-ORIENTED MEMORY SYSTEM HAVING A
UNIDIRECTIONAL COMMAND AND ADDRESS BUS AND A
BIDIRECTIONAL DATA BUS

Technician: [Signature] 2100

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AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111

Commissioner for Patents
Washington, D.C. 20231

Applicant has reviewed the Office Action mailed on September 27, 2001. Please amend the above-identified patent application as follows:

01/24/2002 SFELEKE1 00000004 190743 09434654

01 FC:102 84.00 CH
02 FC:103 90.00 CH

IN THE CLAIMS

Please substitute the claim set in the appendix entitled Clean Version of Pending Claims for the previously pending claim set. The substitute claim set is intended to reflect amendment of previously pending claims 13, 14, 32-37, 40-45, and 48-53, and addition of new claims 56-60. The specific amendments to individual claims are detailed in the following marked up set of claims.

*Sub C3
B1E1*

13. (Amended) ~~A~~ memory system comprising:
a memory controller;
a unidirectional command and address bus coupled to the memory controller, the memory controller communicating commands and addresses to the command and address bus;
a bidirectional data bus coupled to the memory controller, the memory controller communicating data information to the bidirectional data bus for a write operation and receiving the data information from the bidirectional data bus during a read operation;
a memory module, wherein the memory module includes:
a plurality M of memory devices, wherein each memory device contains a data in and a data out buffer, a column decoder and a row decoder;
a [buffer] first register connected between the command and address bus and the plurality of memory devices, the [buffer] first register receiving and latching the